US Army Corps of Engineers ®
Rock Island District

Serving the Nation: The U.S. Army Corps of Engineers

Presented by
COL Duane Gapinski, P.E.
Commander
Rock Island District
U.S. Army Corps of Engineers

Military

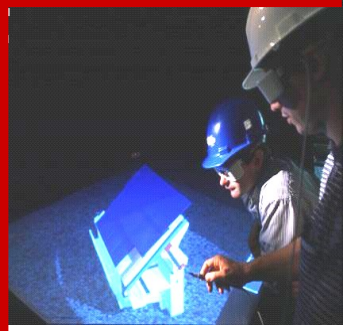
- Military construction
- Base operations
- Environmental restoration
- Geospatial Engineering

Homeland Security

- Critical Infrastructure Anti-Terrorism Planner
- The Infrastructure Security Partnership

Research &

- Military engineering
- Terrain & Geospatial
- Structures
- Environment
- Water Resources



Civil Works

- Navigation, Hydropower
- Flood control, Shore Protection
- Water Supply, Regulatory
- Recreation, Disaster response

Real Estate

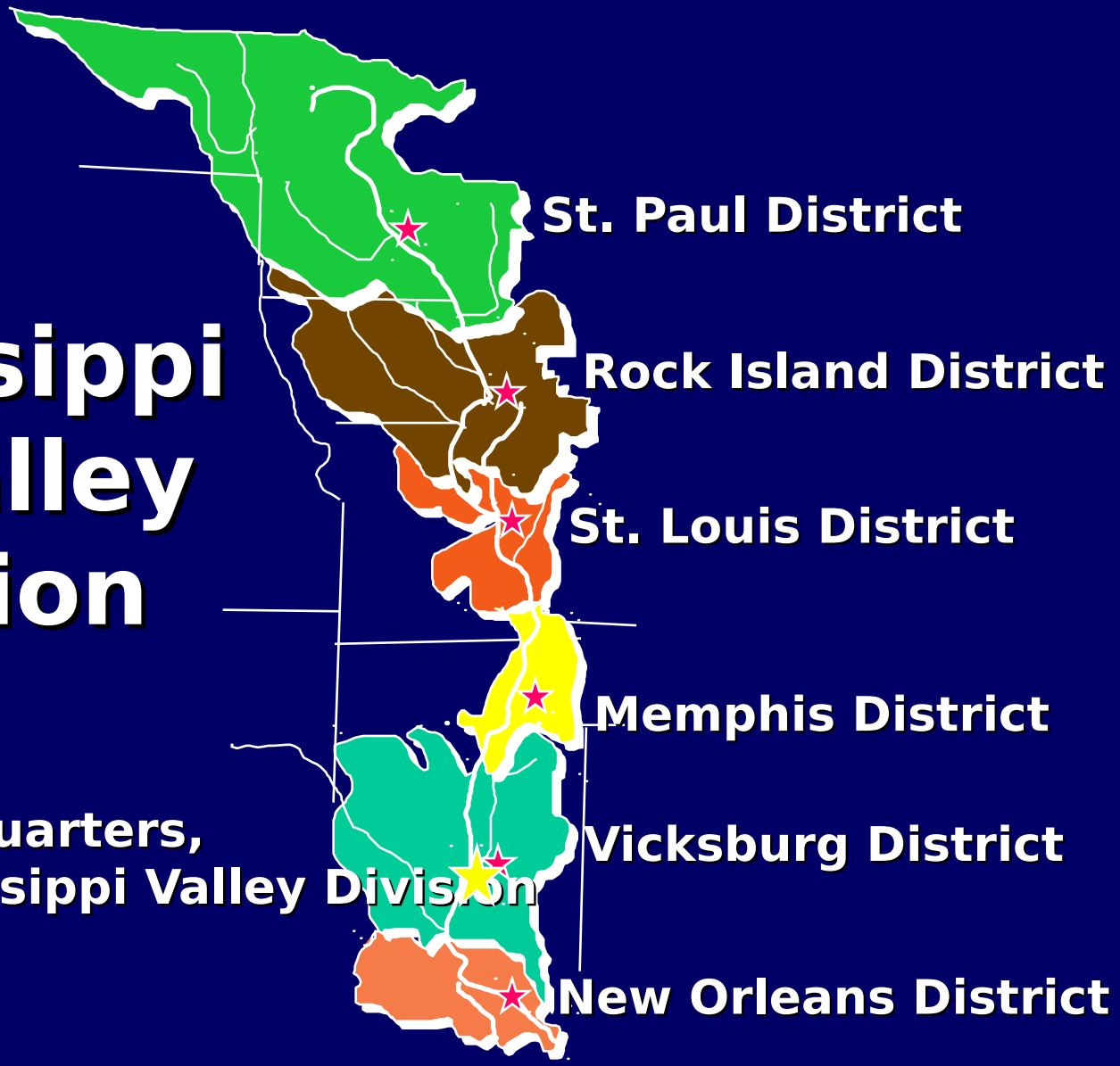
- Acquire, manage & dispose
- DOD Recruiting facilities
- Contingency operations

Interagency Support

- DOD
- Federal
- State
- Local
- International

Plus: *Global War on Terrorism (GWOT)*

Mississippi Valley Division



Geographical Boundaries

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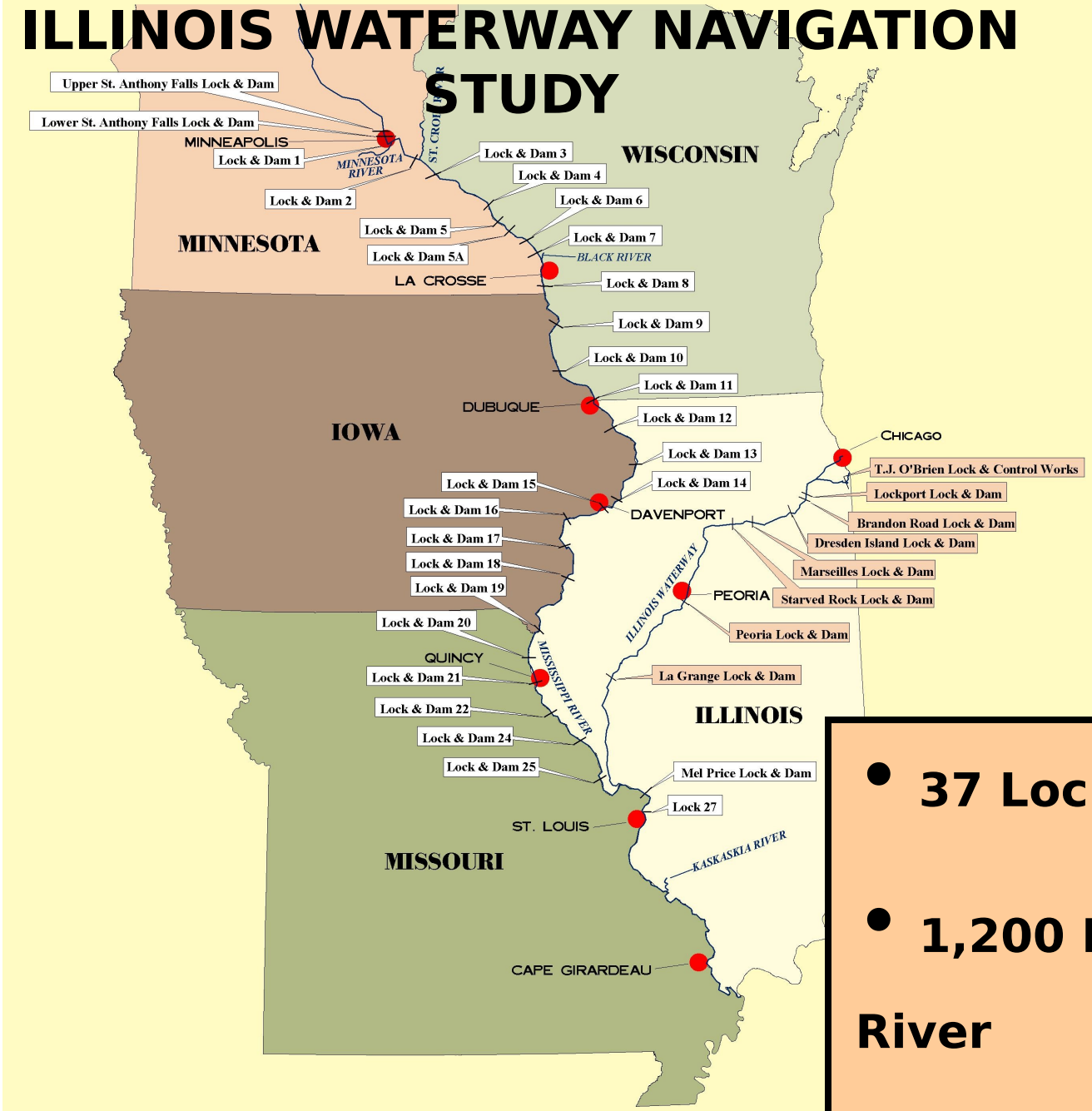
Mission

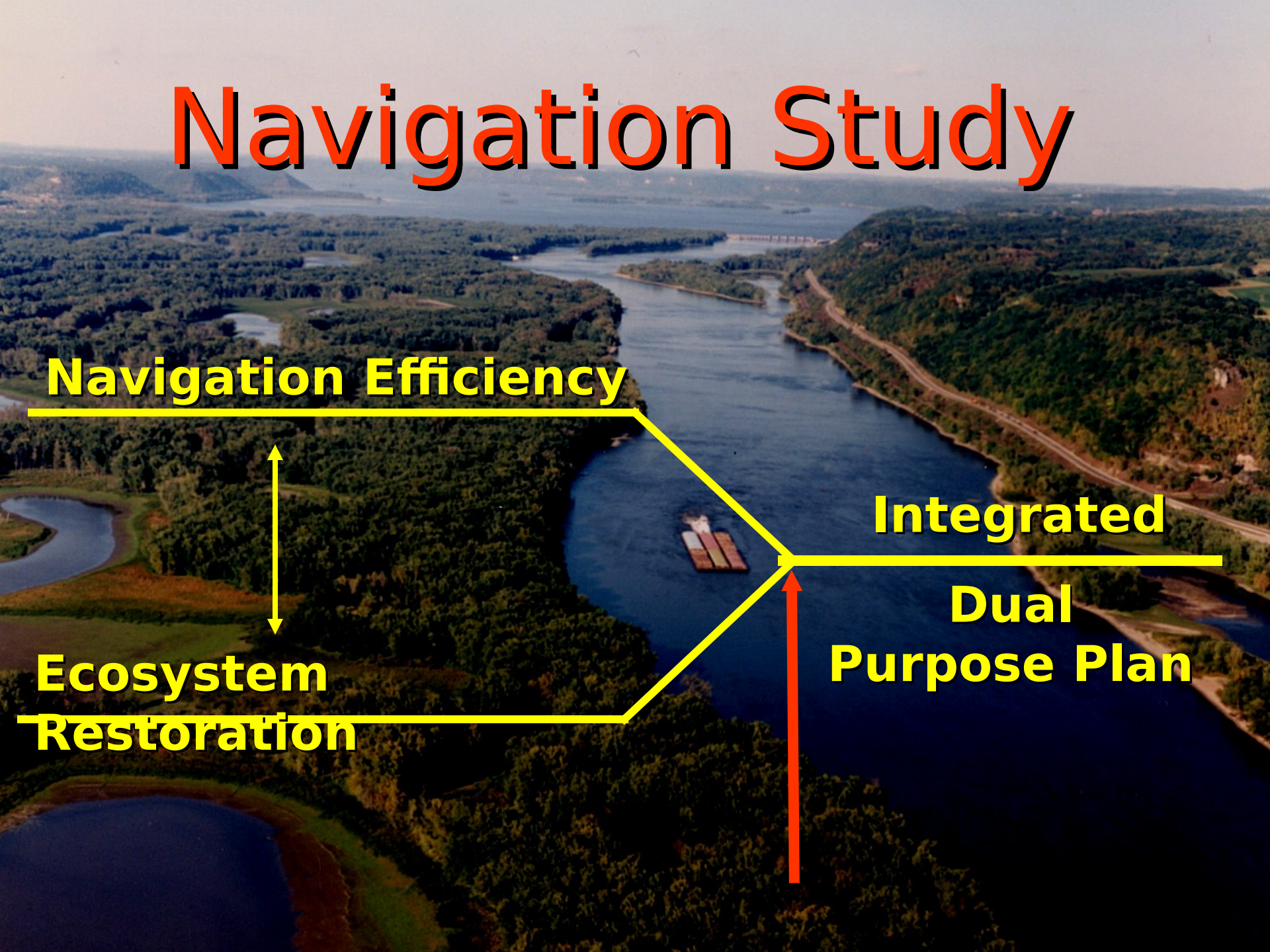
- ***Provide Our Services to the Nation in Times of Emergencies;***
- ***Plan, Design & Construct Water Resource & Infrastructure Projects;***
- ***Manage & Conserve Natural Resources Consistent With Ecosystem Management Principles, While Providing Quality Outdoor Recreation Experiences;***
- ***Operate & Maintain Lands & Facilities Under Our Jurisdiction;***
- ***Implement Regulatory Authorities That Protect Our Nation's Resources.***

UPPER MISSISSIPPI RIVER – ILLINOIS WATERWAY NAVIGATION STUDY



- 37 Lock Sites
- 1,200 Miles of River

Navigation Study



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Navigation Efficiency Draft Tentatively Selected Plan

Immediately Authorize & Implement ($84 M):

- **Mooring Facilities @ 12, 14, 18, 20, 22, 24 and LaGrange**
- **Switchboats @ 20-25**
- **Initiate Mitigation for Effects**
- **Continue Development and Testing of an Appointment Scheduling System.**

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Navigation Efficiency Draft Tentatively Selected Plan

Recommend Approval of Framework ($2.3 B):

- **New 1,200’ Locks at 20-25, LaGrange, Peoria**
- **1,200’ Lock Extensions 14-18**

- **Adaptive Management Concepts**
- **Checkpoints Requiring Congressional Approval**
- **Continued Monitoring of Economic Factors**
- **Initiation of Pre-Construction, Engineering & Design (PED)**

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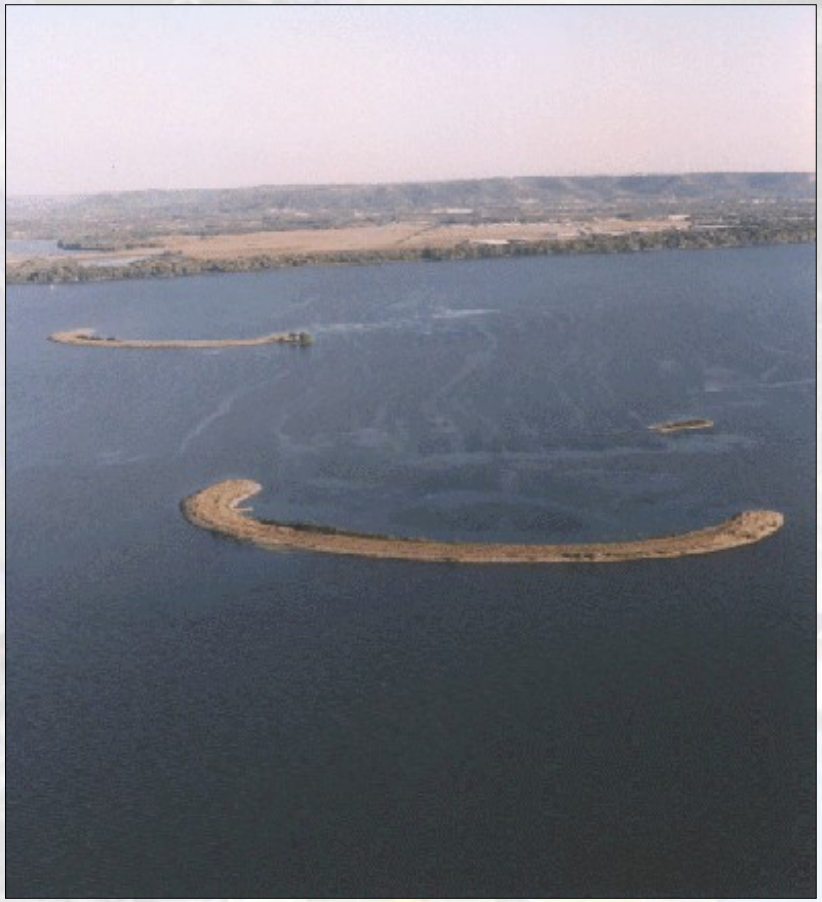
Ecosystem Restoration Measures



- Island Building
- Fish Passage
- Floodplain Restoration
- Water Level Management
- Backwater Restoration
- Side Channel Restoration
- Wing Dam/Dike Alteration
- Island/Shoreline Protection
- Topographic Diversity
- Dam Point Control

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Ecosystem Restoration Tentative Recommendation

Approve Conceptual Framework of Alternative D* $ 5.3 Billion 50-yr Plan

- **Authorize Initial Incremental (15 Yrs, $1.3B) Strategy; Develop With Stakeholder**
  - **Best Return on Investment**
  - **Best Gains in Diversity**
  - **Additional Knowledge Required to Guide Future Investments**

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Ecosystem Restoration Tentative Recommendation

**Approve Conceptual Framework of Alternative D*
$ 5.3 Billion 50-yr Plan**

- **Report Back to Committee After 15 Yrs**
  - **Assessment of Program**
  - **Recommendations for Modifications**
  - **Potential Further Authorization**

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Feasibility Study Schedule

- **Alternative Formulation Briefing** **Feb 04**

  Tentative Recommended Plan Identified

- **Draft Feasibility Report** **Apr 04**
- **Stakeholder & Public Review** **May - Jul 04**
- **Public Meetings** **Jun 04**
- **Final Feasibility Report w/EIS** **Sep 04**
- **NRC Review Final Feasibility Report** **Oct - Nov 04**
- **Chief’s Report** **Nov 04**

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Flow Frequency Study

- **Goal: Update the Flood Profiles for 1,900+ Miles of the Upper Mississippi, Missouri & Illinois Rivers**
- **Purpose:**
  - **Provide Information Fundamental to Planning & Implementing Flood Damage Reduction & Environmental Restoration Measures**
  - **Support All Aspects of Floodplain Management**
  - **Help Floodplain Communities, Farmers &**

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Flow Frequency Study (Continued)

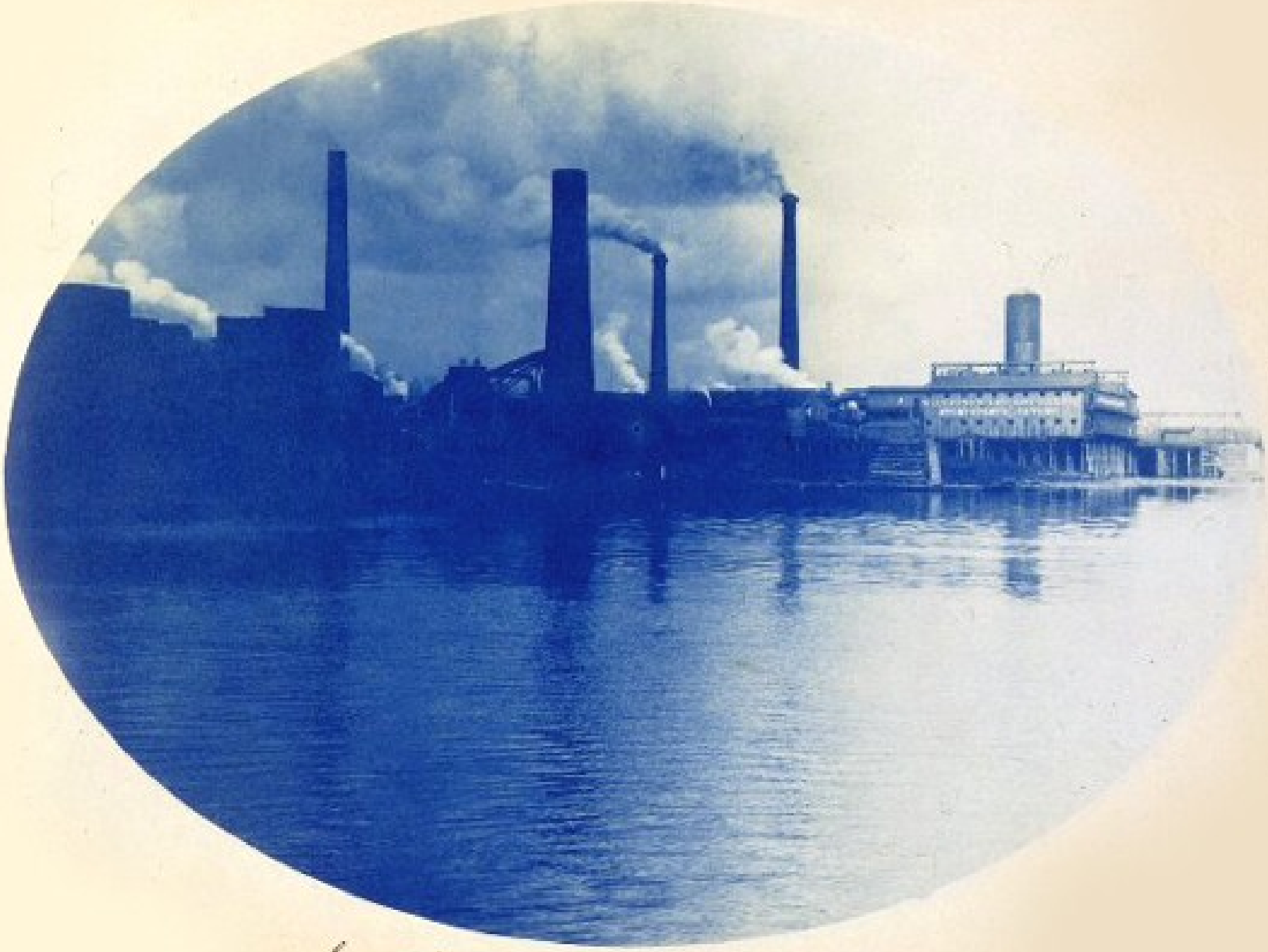
Old vs. New 100-Year (1% Chance) Flood Profiles for the Clinton Area:

Location	River Mile	OLD* 1979 Study 100-year 1% NGVD 1929	NEW 2003 Study 100-year 1% NGVD 1929	Difference** (feet)
Dubuque, IA	579.3	611	610.5	-0.5
Dubuque, Iowa COE Gage		*281,000 cfs*	*274,000 cfs*	
Dam 13 Pool, near Clinton, IA	522.5	593.8	592.8	-1
Clinton, Iowa USGS Gage		*295,000 cfs*	*283,000 cfs*	
Camanche, Iowa	512	586.9	587.8	0.9
Dam 14 Pool, (near LeClaire, IA)	493.3	576.5	577.3	0.8
Dam 15 Pool, (near Quad Cities)	482.9	565.5	565.8	0.3

** U.S. Army Engineer District, Rock Island, 'Upper Mississippi River Water Surface Profiles, River Mile 0.0 to 847.7,' Upper Mississippi River Basin Commission, in cooperation with St. Paul District, North Central Division, and St. Louis District, November 1979.*

*** Negative value means a decrease in 100-year (1%) flood event water surface elevation.*

Flow-Frequency Study Website:
http://www.mvr.usace.army.mil/pdw/pdf/FlowFrequency/flowfreq.htm



Lumber Dock Sawmill - Clinton, Iowa.

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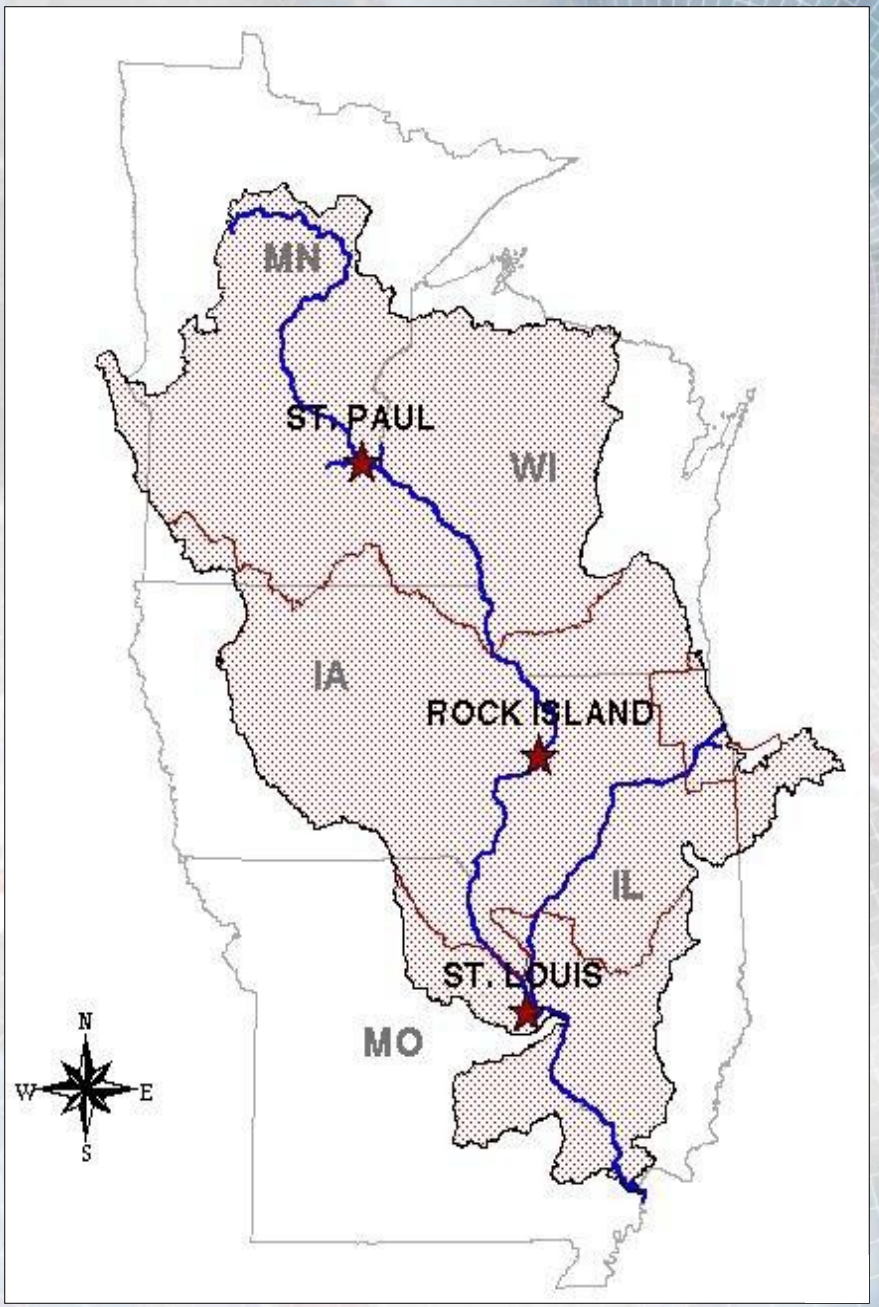
Comprehensive Plan



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Peacetime Military Support

Military Construction under National Mobilization

Building Renovation

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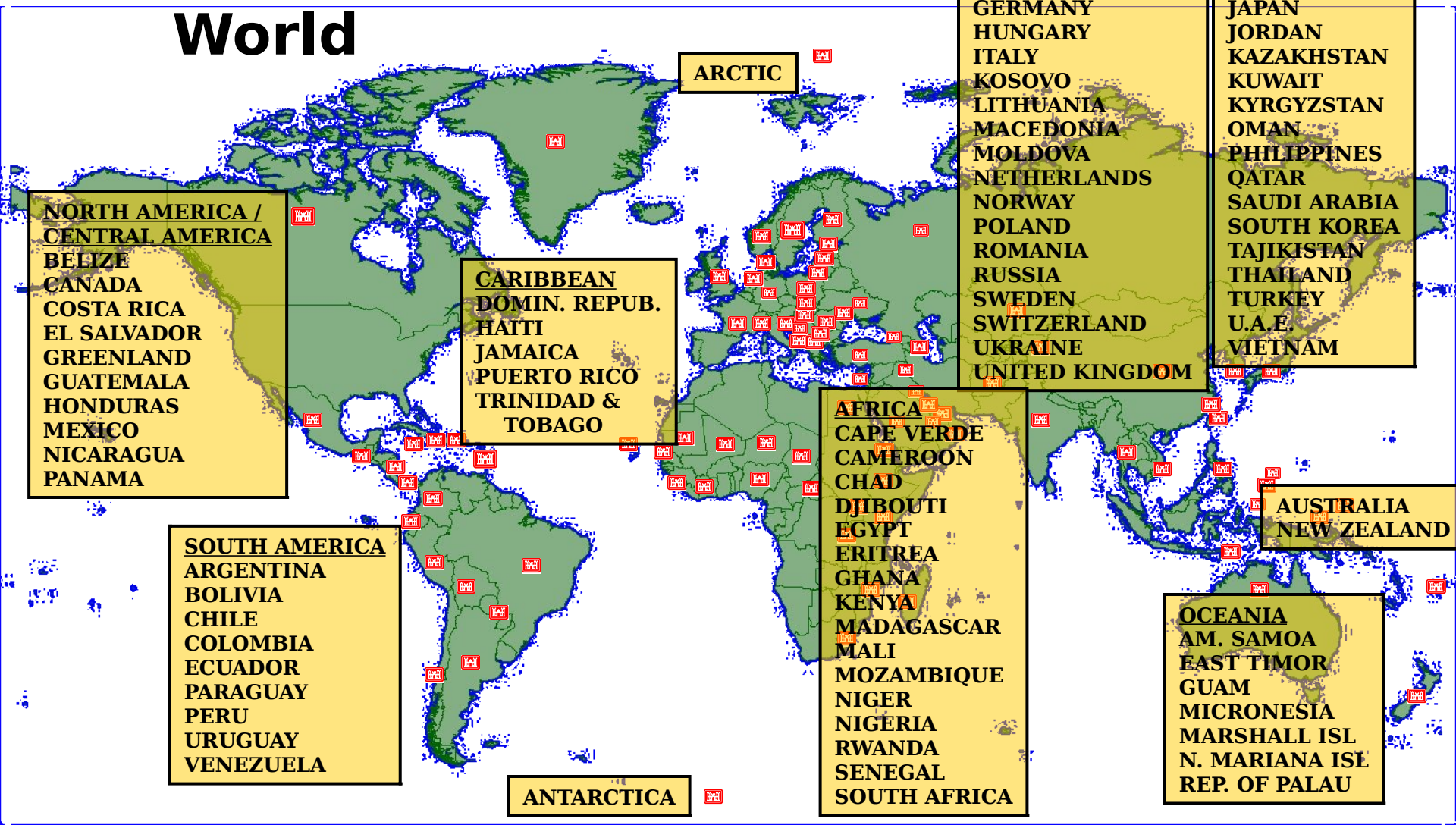
Site Restoration & Cleanup

- **Work for Army, Navy, National Guard**
- **Average Annual Program of $2.5M**
- **Average Annual Inspections 50**

Serving the Nation – All Over the World



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